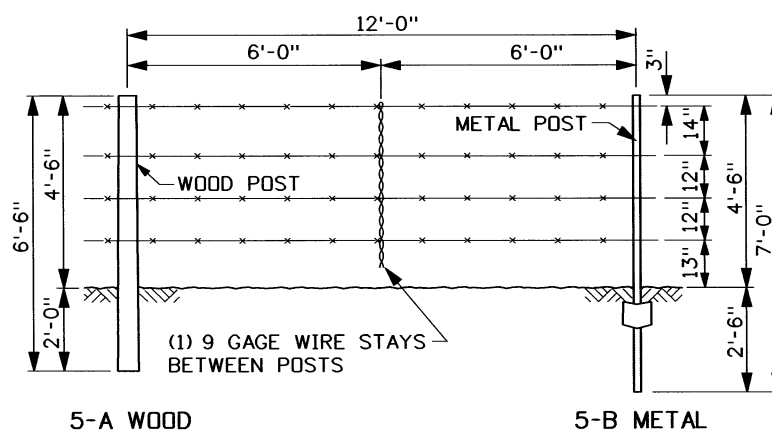
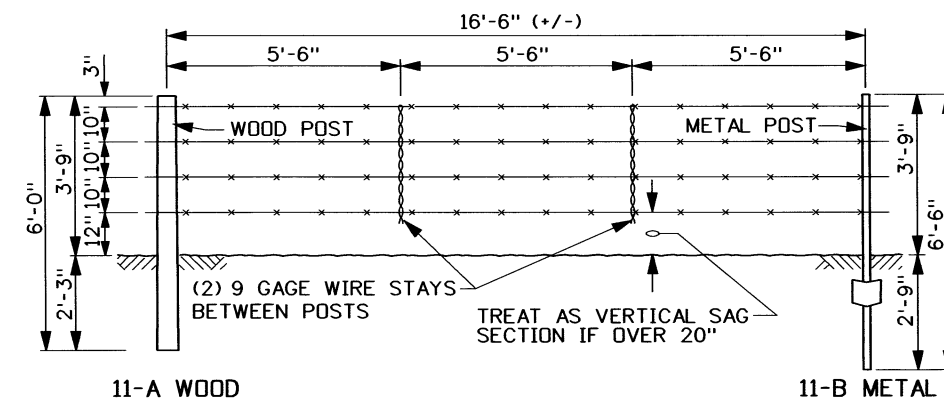


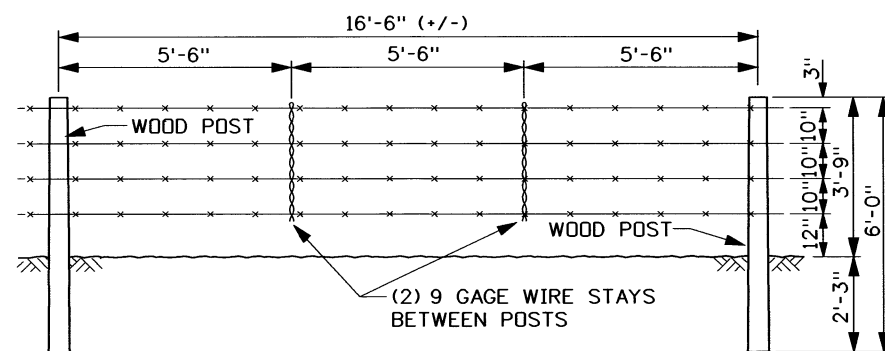
FENCE TYPE 1



FENCE TYPE 5

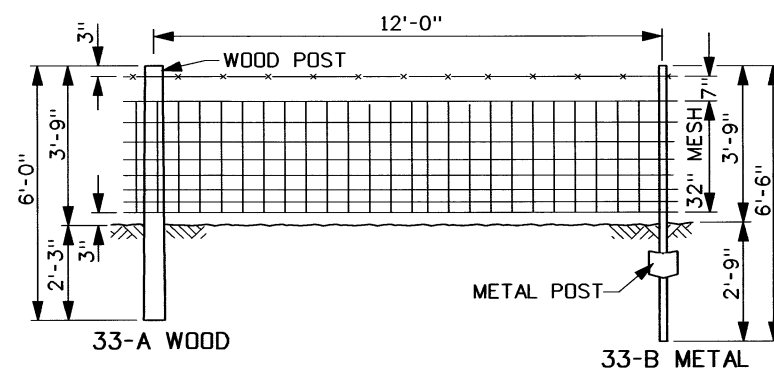


FENCE TYPE 11

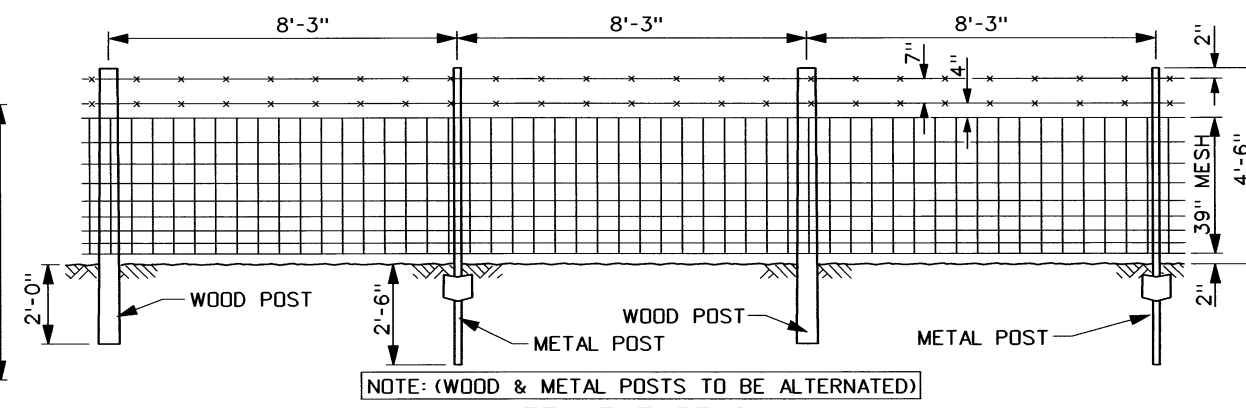


DROP FENCE TYPE 6

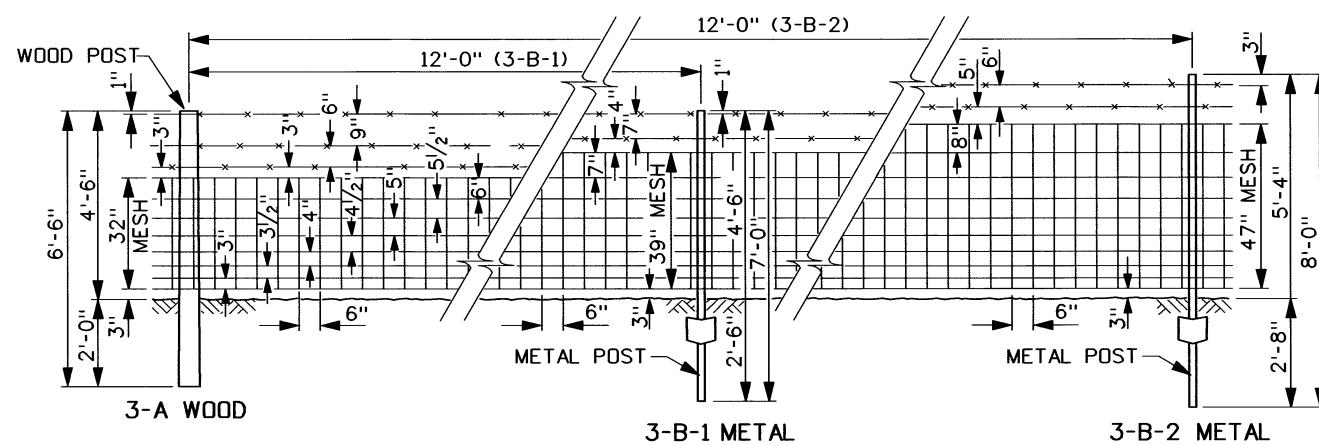
(SEE WOOD POST STAPLE DETAIL, SHEET 2 OF 3)



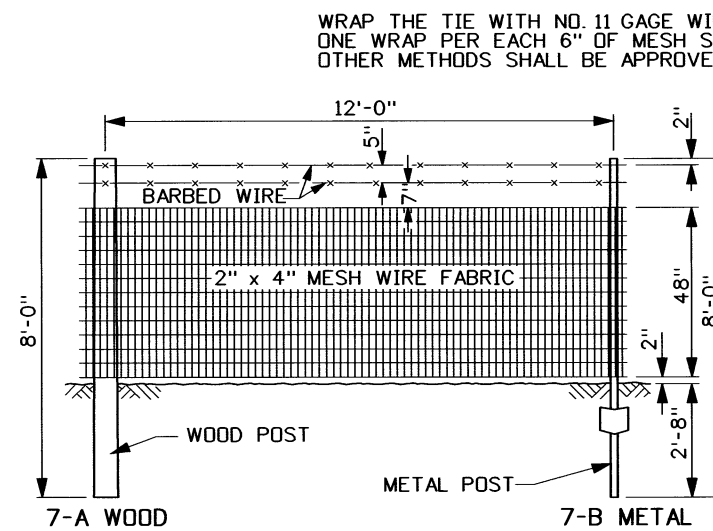
FENCE TYPE 33



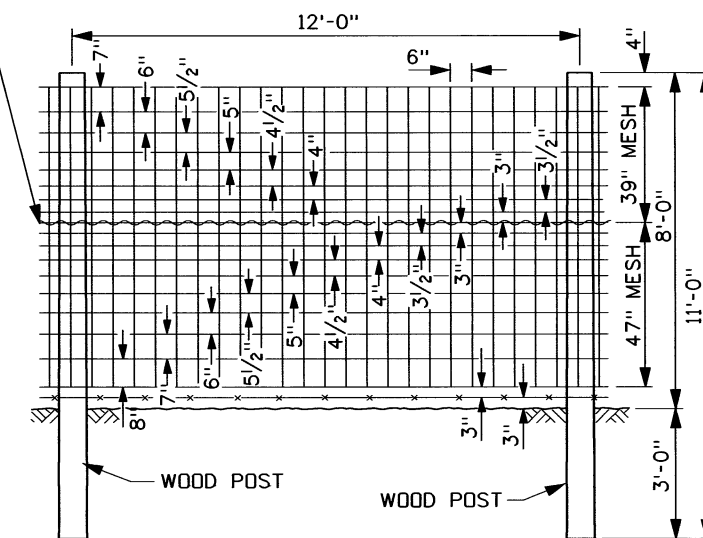
FENCE TYPE 2



FENCE TYPE 3



FENCE TYPE 7



DEER PROOF FENCE TYPE 8

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	4-73		6	3-80		11	1-97
2	12-73		7	7-84		12	11-00
3	2-74		8	5-90	GB	13	11-01
4	2-77		9	12-92	MSM	14	5-04
5	1-78		10	9-93	MSM	15	10-04

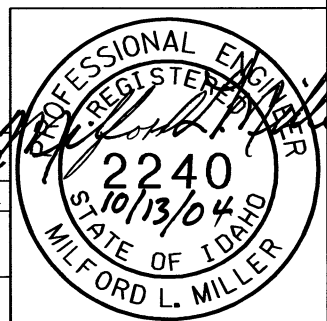
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME f2a_1004.std
DRWG. ORIG. DATE: FEBRUARY, 1973

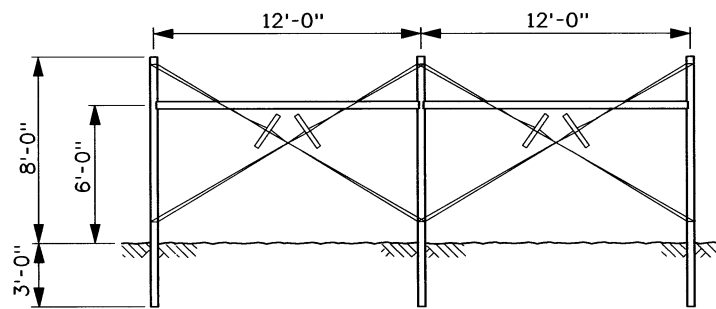
IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

Assistant Chief Engineer (Development)
Chief Engineer

STANDARD DRAWING
STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES, & FENCING DETAILS
REQUIRES SHEETS 2 OF 3 & 3 OF 3

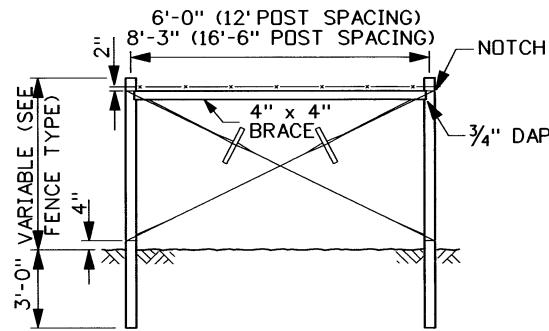
English
STANDARD DRWG. NO.
F-2-A
SHEET 1 OF 3



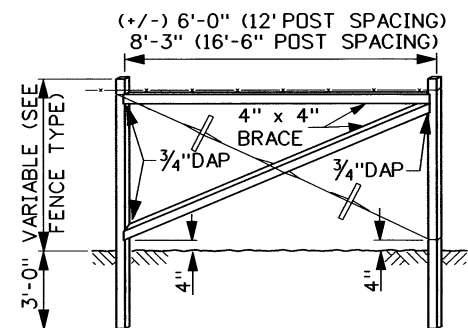


TYPE 8 FENCE SHALL BE BRACED AT INTERVALS NOT EXCEEDING 400 FEET

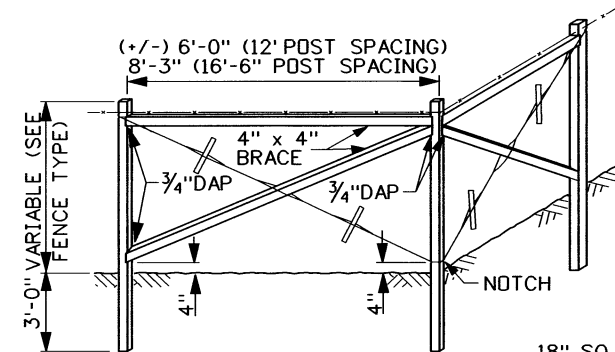
### WOOD LINE BRACE FOR TYPE 8 FENCE



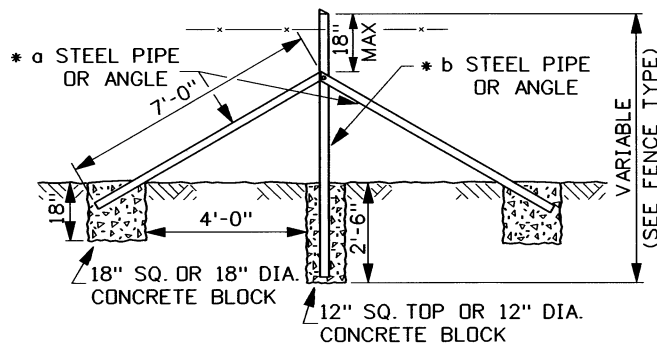
#### LINE BRACE



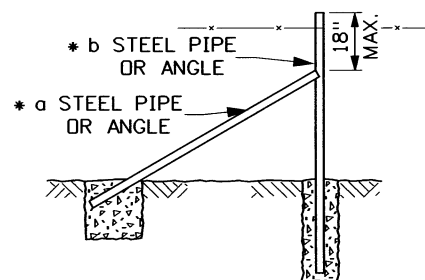
#### TERMINAL BRACE



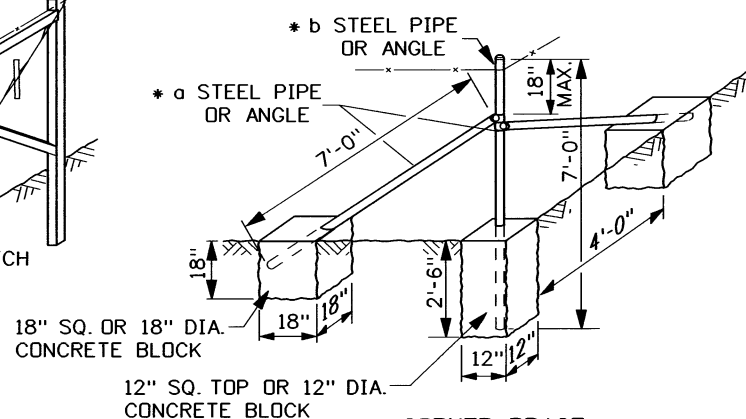
#### CORNER BRACE WOOD BRACES



#### LINE BRACE



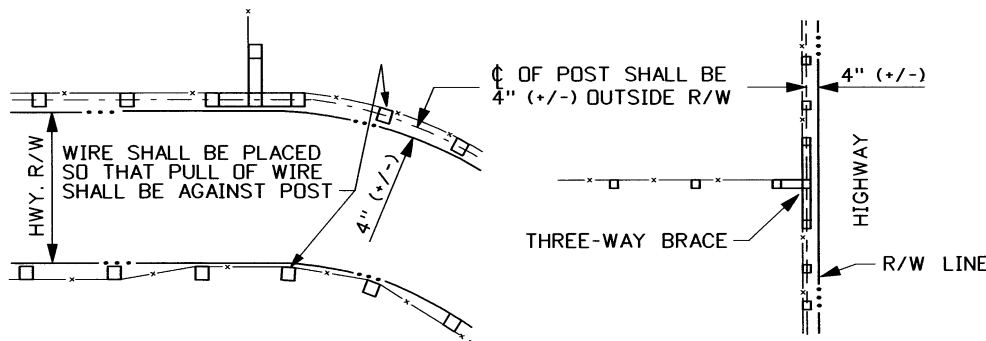
#### TERMINAL BRACE



#### CORNER BRACE

- \* a 2" x 2" x 1/4" ANGLE OR 1.625" O.D. STD. STEEL PIPE BRACE.
- \* b 2 1/2" x 2 1/2" x 1/4" ANGLE OR 2.375" O.D. STD. STEEL PIPE POST.

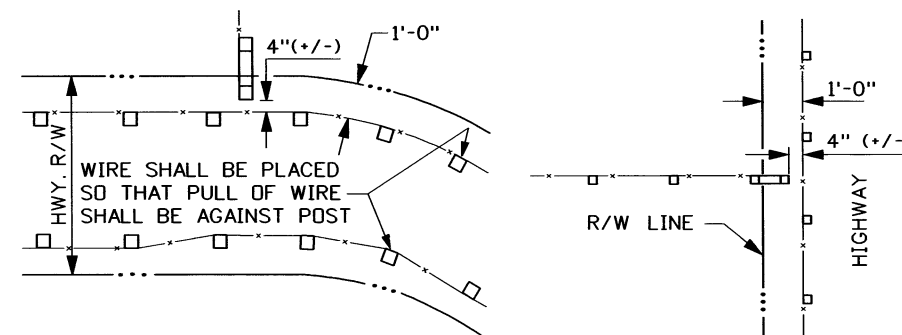
#### METAL BRACES



#### POST & WIRE LOCATION

### STANDARD APPROACH POLICY & PARTIAL CONTROL ACCESS

#### PLAN - FENCE TERMINAL



#### POST & WIRE LOCATION

#### PLAN - FENCE TERMINAL

### FULL CONTROL ACCESS

#### FENCE GROUNDING TABLE

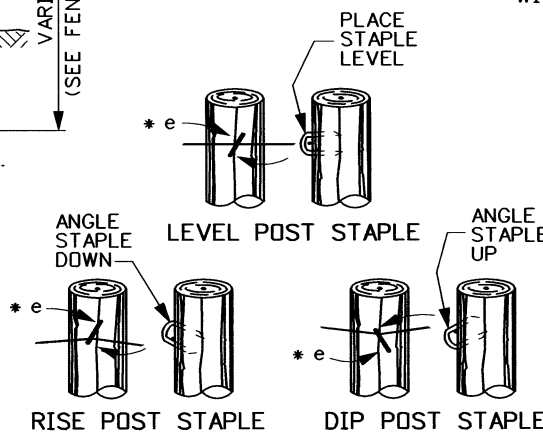
kV	* c GROUNDING INTERVAL	FENCE DISTANCE FROM TRANSMISSION $\phi$	FENCE TYPE
500	200'	0' - 100'	ALL
500	500'	100' - 200'	ALL
345	400'	0' - 100'	ALL
345	1000'	100' - 150'	ALL
>230	500'	50' - 100'	ALL
100-230	120'	WITHIN R/W	ALL
<100	NONE	WITHIN R/W	W/METAL POSTS
	1/4 Mi.	WITHIN R/W	W/WOOD POSTS

\* c FENCE PORTIONS LESS THAN THE GROUNDING INTERVAL IN LENGTH SHALL BE GROUNDING ONCE.

#### NOTES

1. WHEN A FENCE LINE APPROACHES A DITCH, GULLY, OR DEPRESSION, THE LAST POST ON LEVEL GROUND SHALL BE PLACED CLOSE ENOUGH TO THE EDGE OF THE DROP-OFF THAT THE WIRE MAY BE STRUNG TO A POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND.
2. WHEN THE DEPTH OF A DEPRESSION ON A TYPE 1, 5, OR 11 FENCE EXCEEDS THE TOTAL VERTICAL WIRE SPACING OVER A MAXIMUM HORIZONTAL RUN OF 2 SPACES, AN EXTRA FENCE SHALL BE CONSTRUCTED THROUGH THE DEPRESSION. EXTRA LINE BRACES AND A DEADMAN ARE INCLUDED IN THIS APPLICATION. SEE THE SPECIAL APPLICATIONS FOR BARBED WIRE DETAIL.
3. WHEN A TYPE 1 GATE IS USED IN A SPECIAL SITUATION AS SHOWN ON THE ABOVE DETAIL, EXTRA LINE BRACES AND THE ATTACHED UNDER TIMBER, WIRE, AND WIRE STAYS ARE INCLUDED. THE HORIZONTAL WIRES ON THE UNDER TIMBER ARE NOT TO BE STAPLED BUT WRAPPED AROUND BRACE POST TWICE THEN AROUND THE WIRE ITSELF.
4. THE SPECIAL APPLICATIONS FOR BARBED WIRE FENCES MAY BE USED FOR WOVEN WIRE AND MESH WIRE FENCE TYPES 2, 3, 7, AND 33 WITH PRIOR APPROVAL BY THE ENGINEER OR AS DIRECTED IN THE PLANS. A TYPE 2 GATE SHOULD BE USED WITH THESE FENCES. BARBED WIRE MAY BE USED THROUGH THE DEPRESSIONS OR ETC., HOWEVER THE WIRES MUST MATCH THE WOVEN/MESH WIRE SPACING AS NEARLY AS POSSIBLE. THE UNDER TIMBER SHOULD NOT BE ATTACHED DIRECTLY TO A TYPE 2 GATE.
5. WHEN WOOD BRACES ARE USED AND THE FENCE CORNER ANGLE EXCEEDS 30° ON THE EXTERIOR ANGLE OF THE FENCE, DOUBLE PANELS SHALL BE USED ON THE CORNER BRACE. DOUBLE PANELS FOR LINE AND TERMINAL BRACES SHALL BE INSTALLED ACCORDING TO THE FENCE BRACE TABLE.
6. METAL BRACES SHALL BE USED AS SHOWN IN THE METAL BRACE DETAILS AND THE FENCE BRACE TABLE.

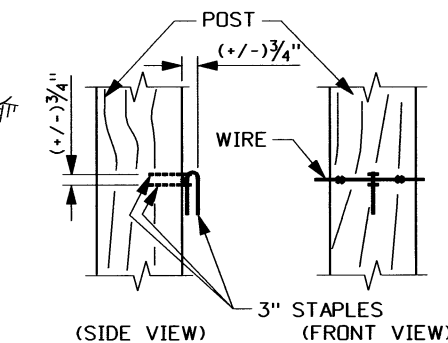
ALL WIRES CONNECTED TO (6) BRAID GROUND CABLE WITH SPLIT ELECTRICAL BOLT



\* e ROTATE STAPLE ON ALL POSTS TO STRADDLE ACROSS THE WOOD GRAIN & ALLOW ENOUGH SPACE FOR WIRE TO SLIDE THROUGH THE DRIVEN BACK OF THE STAPLE.

#### STRAND WIRE FENCES

EACH SINGLE WIRE CONNECTED TO (6) BRAID GROUND CABLE WITH SPLIT ELECTRICAL BOLT AND FABRIC CONNECTED APPROXIMATELY EVERY 18"



#### FOR DROP FENCE TYPE 6 WOOD POST STAPLING DETAILS

MIN. 8" x 5/8" GROUNDING ROD

#### MESH WIRE FENCES FENCE GROUNDING DETAILS

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	4-73		6	3-80		11	1-97
2	12-73		7	7-84		12	11-00
3	2-74		8	5-90	GB	13	11-01
4	2-77		9	12-92	MSM	14	5-04
5	1-78		10	9-93	MSM	15	10-04

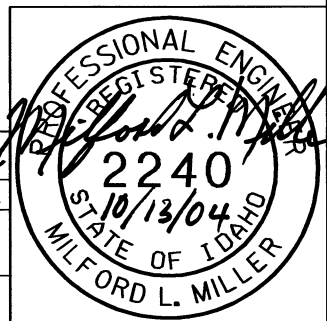
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME f2a_1004.std
DRWG. ORIG. DATE: FEBRUARY, 1973

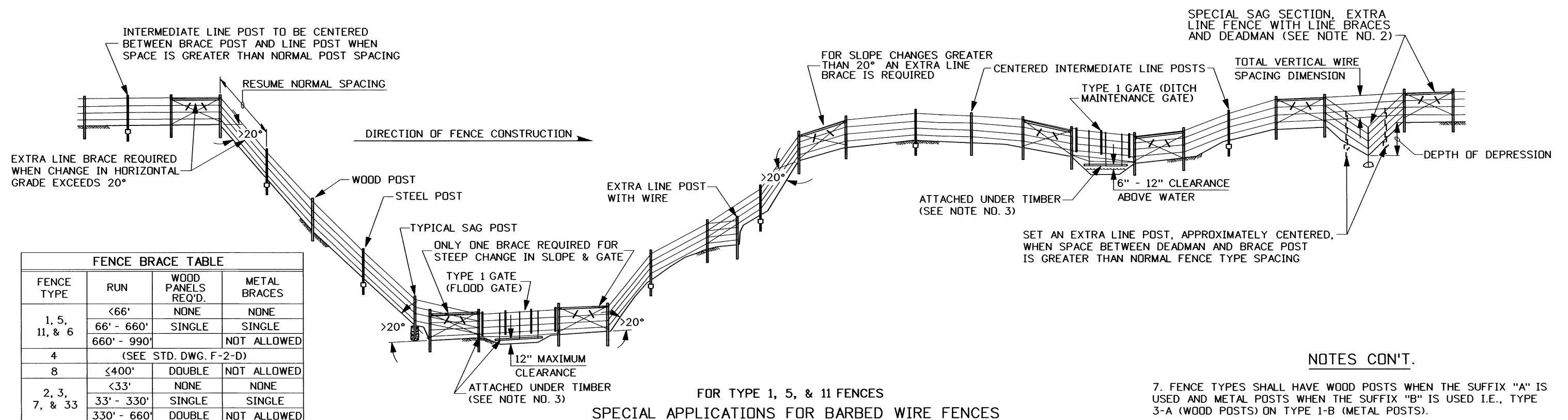
IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

Assistant Chief Engineer (Development)
Chief Engineer

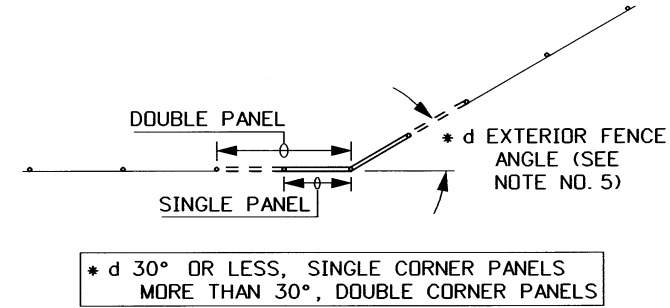
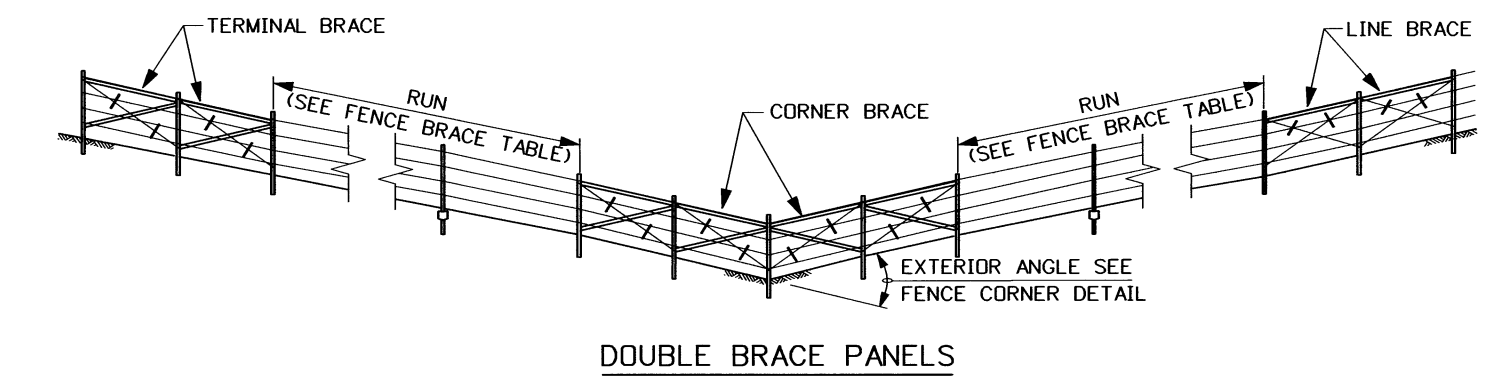
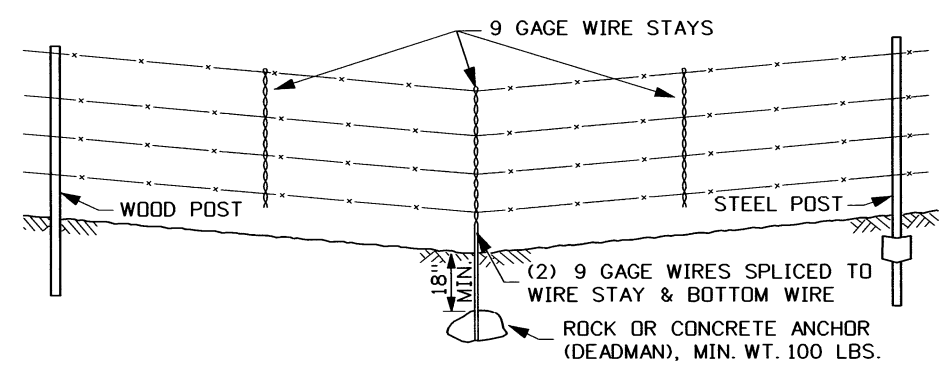
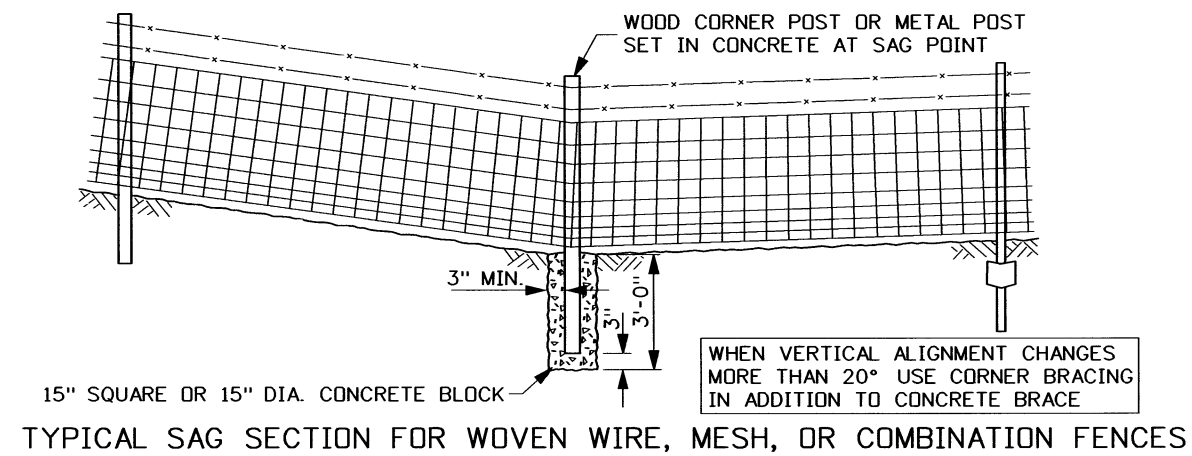
STANDARD DRAWING
STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES, & FENCING DETAILS
REQUIRES SHEETS 1 OF 3 & 3 OF 3

English
STANDARD DRWG. NO.
F-2-A
SHEET 2 OF 3




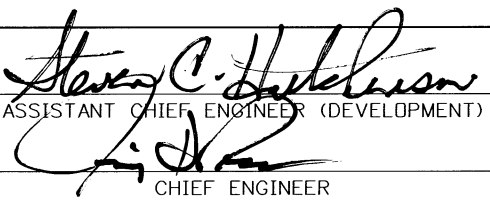
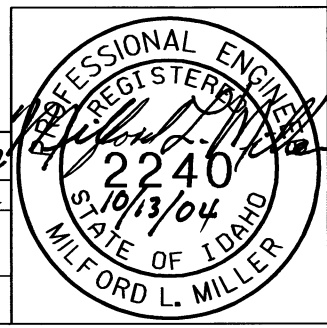


FENCE BRACE TABLE			
FENCE TYPE	RUN	WOOD PANELS REQ'D.	METAL BRACES
1, 5, 11, & 6	<66'	NONE	NONE
	66' - 660'	SINGLE	SINGLE
	660' - 990'		NOT ALLOWED
4	(SEE STD. DWG. F-2-D)		
8	<400'	DOUBLE	NOT ALLOWED
2, 3, 7, & 33	<33'	NONE	NONE
	33' - 330'	SINGLE	SINGLE
	330' - 660'	DOUBLE	NOT ALLOWED



NOTES CONT.

- FENCE TYPES SHALL HAVE WOOD POSTS WHEN THE SUFFIX "A" IS USED AND METAL POSTS WHEN THE SUFFIX "B" IS USED I.E., TYPE 3-A (WOOD POSTS) ON TYPE 1-B (METAL POSTS).
- MESH WIRE ON WOOD POSTS SHALL HAVE STAPLES ON ALTERNATE WIRES EXCEPT FOR SAG SECTIONS WHEN ALL WIRES WILL BE STAPLED. MESH WIRE ON STEEL POSTS SHALL HAVE FOUR WIRE CLAMPS PER POST EXCEPT IN SAG SECTIONS THREE ADDITIONAL CLAMPS PER POST WILL BE REQUIRED.
- BARBED WIRE ON WOOD POSTS SHALL HAVE ONE STAPLE PER WIRE PER POST AND TWO STAPLES PER WIRE PER POST ON BRACES AND IN SAG SECTIONS. WIRE ENDS SHALL BE SECURELY WRAPPED AROUND A POST AT A BRACE OR SPLICED IN LINE. BARBED WIRE ON METAL POSTS SHALL HAVE ONE WIRE CLAMP PER WIRE PER POST.
- ALL METAL POSTS SHALL HAVE AN ANCHOR PLATE ATTACHED TO THE POST UNLESS THE POST IS SET IN SOLID ROCK. DRILL HOLES SHALL BE GROUTED IN FOR METAL POSTS SET IN SOLID ROCK.
- BARBED WIRE ON METAL POSTS SHALL HAVE ONE WIRE CLAMP PER WIRE PER POST.
- WHERE A FENCE TIES INTO A BRIDGE PARAPET OR RAILING, THE TOP OF THE FENCE SHALL NOT PROJECT ABOVE THE TOP OF THE PARAPET OR RAILING.
- ALL WOVEN WIRE AND BARBED WIRE FENCES SHALL CONFORM TO SUBSECTION 610 - FENCES AND ALL METAL POSTS, BARBED WIRE, MESH WIRE, AND WOVEN WIRE SHALL CONFORM TO SUBSECTIONS 708.09 THRU 708.12 OF THE STANDARD SPECIFICATIONS.
- FOR STANDARD BRACE PLACEMENT AND SPECIAL APPLICATIONS ON BARBED WIRE FENCES AND WOOD BRACES SEE SHEET 3 OF 3.
- ALL BARBED, WOVEN, MESH, AND COMBINATION WIRE FENCES SHALL BE GROUNDED ACCORDING TO THE FENCE GROUNDING TABLE AND THE METHOD SHOWN ON FENCE GROUNDING DETAIL. TYPE 2 GATES FALLING WITHIN THESE AREAS SHALL BE GROUNDED WITH A FLEXIBLE GROUNDING CABLE ATTACHED TO THE GATE FABRIC. ATTACH THE CABLE TO A SEPARATE FENCE GROUNDING SYSTEM ON THE SWING SIDE OF THE GATE. DO NOT GROUND TYPE 1 GATES.
- NOT TO SCALE.

REVISIONS								SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		IDaho TRANSPORTATION DEPARTMENT		 ASSISTANT CHIEF ENGINEER (DEVELOPMENT) CHIEF ENGINEER	STANDARD DRAWING STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES, & FENCING DETAILS REQUIRES SHEETS 1 OF 3 & 2 OF 3	English STANDARD DRWG. NO. F-2-A SHEET 3 OF 3	
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	CADD FILE NAME f2a_1004.std						
1	4-73		6	3-80		11	1-97	MSM		BOISE IDAHO					
2	12-73		7	7-84		12	11-00	MSM							
3	2-74		8	5-90	GB	13	11-01	MSM							
4	2-77		9	12-92	MSM	14	5-04	MSM							
5	1-78		10	9-93	MSM	15	10-04	MSM							
									DRWG. ORIG. DATE: FEBRUARY, 1973						